

To carry out this modification the case halves need to be split.

d. Hitachi. This is the standard alternator fitted to Yanmar engines (Models LR 135-74 35A, LR 155-20 55A and LR 135-105 35A). Use the following procedure:

- (1) Remove the rear casing from the alternator. The screws are generally torqued extremely tight, so use the correct screwdriver size.
- (2) Carefully cut off the connections to the existing regulator. There are 5 in total.
- (3) Solder a 1.5 mm bridging wire between the R and F terminals, as illustrated.
- (4) Replace the rear casing.
- (5) Connect the external field connection to the socket at the rear of the alternator. A cable and plug are normally fitted and can be removed.

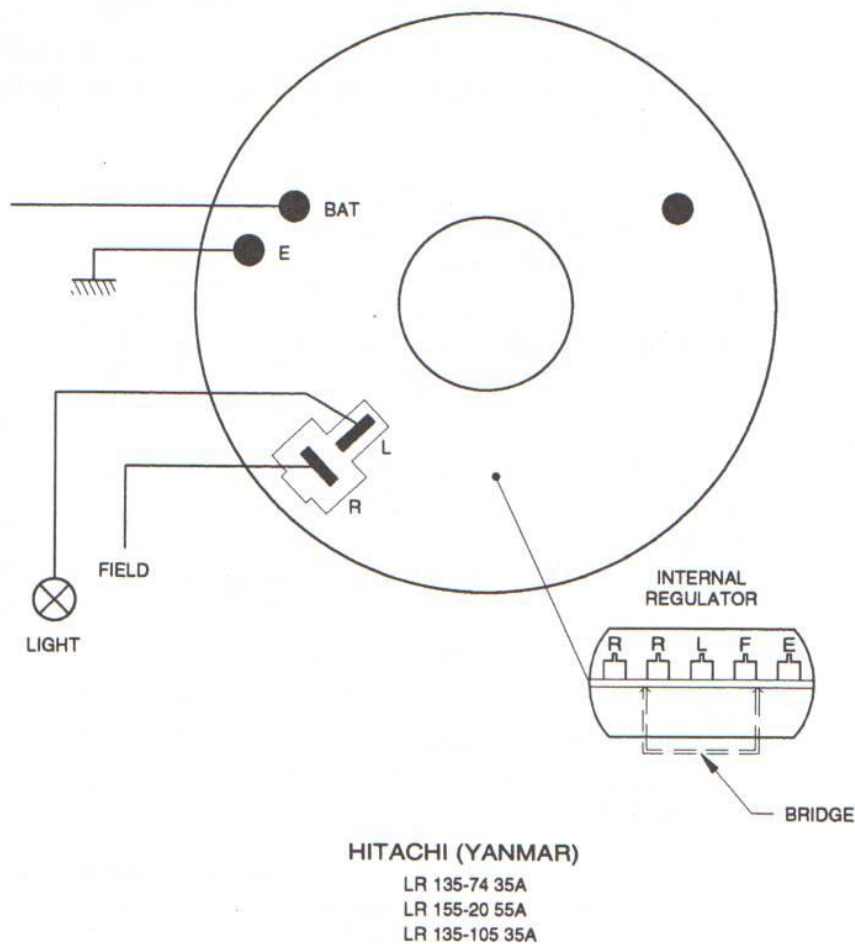


Figure 3-7 Hitachi Alternator

Remove stator coil and brush block

With a small hacksaw, cut the links to the internal regulator

Solder a wire to R and F

Reassemble alternator, hold brushes back with a toothpick or similar small pin

Pin description

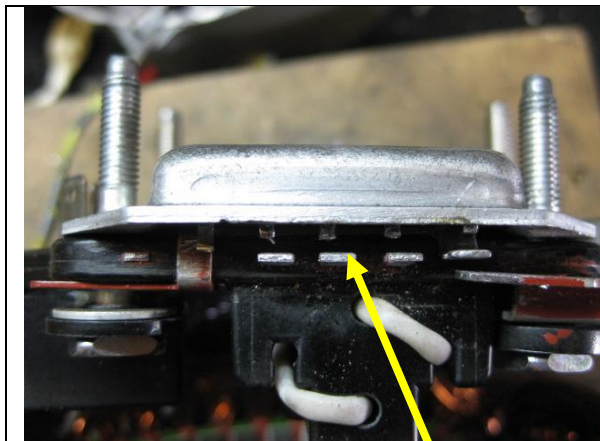
R = not used

R = Bottom plug connector to here, which then becomes FIELD for N Switching

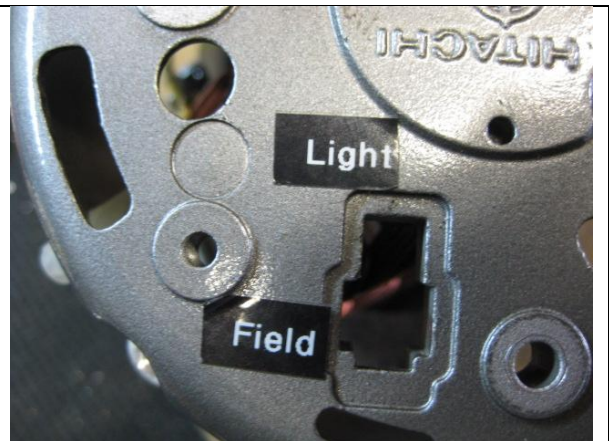
L = Bottom brush and light

F = top brush (ZM4)

E = earth



Existing regulator and cut links



Label plug connections like the above

Plug connection – BU/BK (blue with black pin stripe) = Charge lamp

_ RD/BK (Red with a black pin stripe) = Ignition key, excitation